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Certificate of Analysis

Rat Parvovirus (RPV)

PCR Positive Control DNA

Catalog Number: PCRPC133

Date: August 2012

Volume: 250 µl

DNA Concentration: 150 ng/µl in TE buffer. Use 0.5 to 1.0 µl per PCR reaction.

Specific Activity: At least 500 copies per µl.

Storage conditions: -20° C to -70° C

Typical PCR reaction: Total volume 50 µl, 25 µl water, 5 µl 10x PCR Buffer, 2 µl 50

mM MgSO₄, 1 µl 10 mM dNTP mix, 1 µl 10 µM Forward Primer, 1 µl 10 µM Reverse Primer, DNA 0.5 to 1 µl, add water to 49.5 µl, and add last 0.5 µl *Taq* Polymerase. Mix, spin down gently, and put tubes in thermal cycler. Alternatively, a master mix including everything except some water and DNA may be used.

Typical Thermal Cycler Program:

- | | |
|-------------|----------|
| 1. 94° C | 2 min |
| 2. 94° C | 15 sec |
| 3. 55° C | 30 sec |
| 4. 0.5°/sec | to 68° C |
| 5. 68° C | 2 min |
| 6. Go to 2 | 35 times |
| 7. 72° C | 5 min |
| 8. 4° C | forever |
| 9. End | |

PCR Primers: For 5'-CGC ACA TGT AGA ATT TTT GCT G-3'

Rev 5'-CAA AGT CAC CAG GCA ATG TGT T-3'

References: RPV-1 and RMV-1 PCR Assays, **Laboratory Animals** 2006. **40**: 64. and
Wan, C., et, al., J. General Virology 2002. **83**: 2075-2083.

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